IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): Process A process for polymer formation by the continuous free-radical homogeneous solution polymerization, or melt polymerization, of at least one (meth)acrylate monomer mixtures mixture, characterized in that comprising

feeding the at least one monomer mixture is fed at into the bottom of a tubular reactor,

heating the at least one monomer mixture is heated to reaction temperature in the

presence of an initiator or initiator mixture to form a monomer-initiator mixture, and

stirring the monomer-initiator mixture is stirred at from 5 to 50 rpm by a stirrer,

forming a polymer, and

discharging the molten polymer is discharged at the top of the tubular reactor.

Claim 2 (Currently Amended): Process The process according to Claim 1, eharacterized in that wherein the temperature of the reactor profile is such that the monomer mixtures and polymers the polymer in the reactor are always liquid.

Claim 3 (Currently Amended): Process The process according to Claim 1, eharacterized in that an wherein the initiator or initiator mixture is introduced within the tubular reactor.

Claim 4 (Currently Amended): Process The process according to Claim 1, eharacterized in that wherein the at least one monomer mixture is preheated.

Claim 5 (Currently Amended): Process The process according to Claim 1, eharacterized in that it wherein the process is carried out without solvent. Claim 6 (Currently Amended): Process The process according to Claim 1, characterized in that, wherein the final polymerization forming a polymer takes place in a downstream reactor.

Claim 7 (Currently Amended): The process Process according to Claim 1, characterized in that wherein further processing of the polymer takes place directly in a downstream processing apparatus.

Claim 8 (Currently Amended): Process The process according to Claim 1, characterized in that wherein the at least one monomer mixture comprises two one or more monomer mixtures of different composition, are fed into the tubular reactor.

Claim 9 (Currently Amended): Monomer mixtures The process according to Claim 8, eharacterized in that they wherein the two or more monomer mixtures each comprise not only one or more monomers, but also an initiator or initiator mixtures mixture and a regulator or regulator mixtures mixture, and auxiliaries at least one auxiliary, and at least one additive additives, and the initiator or initiator mixture.

Claim 10 (Currently Amended): Monomer mixtures The process according to Claim 8, comprising two monomer mixtures, characterized in that

wherein one mixture comprises not only one or more monomers, but also an the initiator or initiator mixtures mixture, at least one auxiliary and and at least one additive auxiliaries and additives, and

wherein the other mixture comprises not only one or more monomers, but also a the regulator or regulator mixture, and auxiliaries at least one auxiliary and at least one additive additives.

Claim 11 (Currently Amended): Polymers A polymer prepared according to by the process of Claim 1, wherein the process is a melt polymerization process, wherein characterized in that melt polymers have the polymer has a glass transition temperature ≤ 70°C.

Claim 12 (Currently Amended): <u>A tubular Tubular</u> reactor, arranged vertically, <u>comprising with starting material introduction in the lower third of the reactor</u>, and <u>comprising product take-off in the upper third of the reactor, eharacterized in that wherein the reactor comprises reactor zones, wherein the reactor zones can be heated separately, and <u>wherein a centrally arranged stirrer unit operates at rotation rates of from 5 to 50 rpm.</u></u>

Claim 13 (Currently Amended): A polymer formed by the process of Claim 1 Use of the polymers obtainable by a process according to any of Claims 1 to 8, in the form of hot-melt adhesives.

Claim 14 (Currently Amended): Use of the polymers obtainable by a process as elaimed in any of Claims 1 to 8, in the form of A method of forming a viscosity index improvers improver, comprising, forming the viscosity index improver with the polymer of Claim 13.

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Claim 15 (Currently Amended): A method of making a setting-point improver comprising forming the setting-point improver with the polymer of Claim 13 Use of the polymers obtainable by a process according to any of Claim 1 to 8, in the form of setting point improvers.

Claim 16 (Currently Amended): Use of the polymers obtainable by a process according to any of Claims 1 to 8, in the form of lacquers A method of forming a lacquer, comprising forming the lacquer with the polymer of Claim 13.

Claim 17 (New): A method of making a hot-melt adhesive, comprising forming the hot-melt adhesive with the polymer of Claim 13.

Claim 18 (New): The process of Claim 1, wherein the process is a melt polymerization process.

Claim 19 (New): The process of Claim 1, wherein the process is a continuous free-radical homogeneous solution polymerization process.

Claim 20 (New): A polymer formed by the process of Claim 2.